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(54) Title (EN): CENTRIFUGAL COMPRESSOR

(54) Title (FR): COMPRESSEUR CENTRIFUGE

(54) Title (JA): 遠心圧縮機

(57) Abstract:

(EN): This centrifugal compressor comprises: a shaft member (52) that extends in an axial direction and that is capable of rotating; and an impeller (12) having a hub (121) provided to an end part of the shaft member (52) and a plurality of vanes (122, 123) provided to the outer peripheral surface of the hub (121). The impeller (12) has a shape that tapers toward the axially outer side. A cover member (125), which is joined to the radially outer peripheries of the plurality of vanes (122, 123) and which covers at least part of each of the plurality of vanes (122, 123) from the radially outer side, is provided to at least an axially outer-side end part (12a) of the impeller (12). A bearing (15) that rotatably supports the impeller (12) is provided to the radially outer side of the cover member (125).

(FR): Compresseur centrifuge comprenant : un élément arbre (52) qui s'étend dans une direction axiale et qui peut tourner ; et une roue (12) comportant un moyeu (121) situé sur une partie d'extrémité de l'élément arbre (52) et une pluralité d'aubes (122, 123) situées sur la surface périphérique extérieure du moyeu (121). La roue (12) présente une forme qui s'effile vers le côté axialement extérieur. Un élément couvercle (125), qui est relié aux périphéries radialement extérieures de la pluralité d'aubes (122, 123) et qui recouvre au moins une partie de chaque aube de la pluralité d'aubes (122, 123) depuis le côté radialement extérieur, est situé sur au moins une partie d'extrémité côté axialement extérieur (12a) de la roue (12). Un palier (15) qui supporte de manière rotative la roue (12) est situé sur le côté radialement extérieur de l'élément couvercle (125).

(JA): 遠心圧縮機は、軸方向に延び且つ回転可能な軸部材(52)と、軸部材(52)の端部に設けられたハブ(121)、及び、ハブ(121)の外周面に設けられた複数の羽根(122,123)を有するインペラ(12)とを備える。インペラ(12)は、軸方向外側に向けて先細りする形状を有する。インペラ(12)における少なくとも軸方向外側の端部(12a)に、複数の羽根(122,123)の径方向外周と接合され且つ複数の羽根(122,123)の少なくとも一部を径方向外側から覆う被覆部材(125)が設けられる。被覆部材(125)の径方向外側に、インペラ(12)を回転自在に支持する軸受(15)が設けられる。

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